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pro miasmatis finis con?

v 2. By means of the ~~lungs~~ ^{Saliva} which
~~inspire~~ conveys them to the stomach
and bowels. 3 By means of the lungs in
inspiration. and

We have at length finished the history of the
effects of all the sensible and insensible
qualities of the Air upon the human
body in producing Disease. ~~but~~ It remains
now that we inquire in what ~~manner~~ ^{manner}
the insensible qualities of the Air, or in
other words the foreign and extraneous
matters which float in it are taken in
the body so as to enable them to produce
~~an effect~~
the phenomena that have been as-
-cribed to them. It has been supposed they
~~enter~~ ^{enter} upon
~~the~~ the body in one or more of the
Absorbents which
following ways. 1 By means of ~~the lungs~~
terminate on the skin. ✓
~~is inspiration~~ 2 By means of the nerves
which convey them directly to the brain
through the medium of the nose. 3 By

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~~means of the fabrica which convey them~~
~~to the Stranula and vessels &c By means~~
~~of the Absorbents which terminate upon~~
~~the Skin. I admit the three first channels~~
~~which have been right the first ^{only}~~
~~the Absorption of~~ ^{by the Skin} ~~which produce disease only,~~
~~removed matters which~~ ^{altogether,} ~~and that not only~~
~~acting upon the system~~
 because the existence of Absorbents upon
 the Skin has been ~~in a great degree~~ dis-
 proved, but from the unsuccessful issue
 of many Attempts to to communicate the
 small pox by binding & rubbing Variolous
 matter upon the Skin. The rejection of this
 opinion will remove an immense mass of
 error from medicine, and of ^{that} fear & prejudice
 from the minds of physicians ^{which have been dis-}
^{posed} ~~pressing~~ them ~~not~~ to pull off their gloves

~~I have Doubts of the miasmata or contagions then
affecting inducing disease ~~that~~ the way rising with the
Saliva and descending with it into the Stomach. The late
D^r Conell of ...~~

Similar Affections of the Abdominal
Viscera occur in the violent Opacities of
the Small Pox, and yet no one has supposed
its contagion to act primarily upon
the Stomach. We see moreover similar
and even greater Combinations induced in
the System by certain Diseases of the Mind, it
and these we are sure act primarily upon
the brain.

It is no Argument in favor of mias-
mata acting primarily upon the Stomach,
that an emetic prevents the formation of
the fever induced by them. It acts not by
discharging any gas from the Stomach,
but by ^{its} ~~the~~ Stimulus, and ^{the} new Actions
it excites in every part of the body. I ad-
mit

When they feel the pulse of ^a their patients, or ^{in a man}
 if they ventured to feel a few of its strokes with
 naked fingers, it will prevent their ~~washing~~
 inflaming them afterwards with frequent
 Ablutions of with Alkaline mixtures, or
 with Soap and Water. V³ by that the seeds of
 some diseases are taken into the body by the lungs,
 but I believe miasmata of all kinds act
 chiefly ^{its} ~~primarily~~ upon the nerves & brain, and that
 when they enter the body thro' the nerves
 of the lungs, ~~and~~ ^{as} ~~they~~ ^{if they} ~~are~~ ^{are} inoffen-
 sive until they ~~as~~ ^{act} upon the nervous
 system. From the nerves they are commu-
 nicated in ordinary cases of fever in the
 first instance to the blood vessels. They affect
 other parts of the body in proportion to their
 violence or malignity, ^{or according to predisposition.} That the nerves
 are first affected by miasmata I infer from
 pain being so generally one of the first

I have Doubts of the miasmata or contagions ~~the~~
~~effect~~ inducing disease ~~by~~ the mixing with the
Saliva and descending with it into the Stomach. The late
D^r Cowell of Trenton informed me that he once cut a piece
of thread ~~thoroughly~~ impregnated with variolous matter ~~to~~
~~admit of~~ ~~into~~ small pieces & gave it to a child in a dose of
physic, without inducing the small pox. From the

✓ It is no ~~big~~ argument in favor of the
idea of fever being absorbed by the Skin, that
the Scurvy and the Venereal disease are com-
-municated by contact. The former even
passes beyond the Skin, and the latter in-
-duces disease only when it comes in contact
with fores or parts covered with a thin pel-
-licle as the Glans penis, or internal surface
of the Urethra and Vagina. ~~It is~~

~~A~~ ~~innocuous~~ ~~effect~~ ~~of~~ ~~this~~ ~~experiment~~ ~~and~~
~~gas~~ ~~in~~ ~~the~~ ~~Stomach~~ ~~and~~ ~~bowels~~ ~~and~~ ~~both~~ ~~of~~
~~from~~ ~~the~~ ~~harmless~~ ~~use~~ ~~of~~ ~~Carbonic~~ ~~acid~~ ~~gas~~
~~upon~~ ~~the~~ ~~lungs~~ ~~or~~ ~~brain~~

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= I object likewise to the miasmata and con-
-tagious inducing diseases by mixing with sali-
-va and descending with it into the stomach.

The ^{variolous matter} ~~small pox~~ when taken into the stomach
will not excite the small pox. This has been
proved by the late D^r Cowell at Trenton. I am
disposed to believe that the Koinomiasma in
the stomach, if conveyed there, would ~~rather~~
inoffensive, or perhaps counteract the
production of disease. Carbonic acid gas, so
deleterious in the lungs, we know is medicinal
in the stomach, and ~~spice~~ a few spoons full
of Ardent spirits when taken into the sto-
-mach prevent intoxication from their
smell. The sickness, vomiting, Colic, and
even the morbid Affections of the liver ^{ch}
occur in bilious or koinomiasmatic fevers
~~are~~ are all induced I believe by a primary
Affection of the System through the
medium of the ^{note} ~~lungs~~ and the brain. &

When they feel the pulse of their patients, or
 if they ventured to feel a few of its strokes with
 naked fingers, it will prevent their ~~weakening~~
 inflaming them afterwards with frequent
 ablations of with Alkaline mixtures, or
 with Soap and Water. V. ³ by that the seeds of
 some diseases are taken into the body by the lungs,
 but I believe miasmata of all kinds act
 chiefly ^{its} ~~primarily~~ upon the nerves & brain, and that
 when they enter the body thro' the avenues
 of the lungs, ~~and~~ ^{if they do not} ~~they~~ ^{are} ~~are~~ ^{are} inoffen-
 sive until they ~~are~~ ^{are} set upon the nervous
 system. From the nerves they are commu-
 nicated in ordinary cases of fever in the
 first instance to the blood vessels. They affect
 other parts of the body in proportion to their
 violence or malignity, ^{or according to predisposition.} That the nerves
 are first affected by miasmata I infer from
 pain being so generally one of the first

Affection of the brain. The same symptoms are induced by
the fever of the natural pox. We shall mention hereafter
many instances of similar effects from that cause,
particularly in treating upon the Diseases of the mind.
The ~~the~~ ~~Thrombosis~~ ~~was~~ ~~here~~ I to admit the ~~retro~~ ~~primary~~
Action of any of the ~~thrombosis~~ upon the stomach and
bowels it should be the ~~primary~~ ~~characteristic~~ ~~exhalations~~.
~~made~~ ~~fixed~~ ~~by~~ ~~in~~ ~~the~~

V 2 From the functions of the brain
being so ^{much more} ~~generally~~ impaired by fevers from
which are from ~~extraneous~~ ~~causes~~,
miasmata of all kinds, than by fevers
from the accidents, or the sensible qualities
of the air. 99 Consumption & hectic fever from
all ^{this} ~~its~~ causes very rarely produce even a pain
in the head. -

Symptoms of this operation, and that
 the brain is affected at the same time I
 infer ~~not only~~ ^{from the vicinity of the nose to the brain} ~~the intimate connection of its~~ ^{the intimate connection of its}
~~from the nerves of the nose~~ with the brain;

^{3^{ly}} ~~but~~ from a fact mentioned by Dr Black
 in his experiments upon fixed air, or what
 we now call Carbonic Acid Gas. "I discovered
 (says the Doctor) that this air ^{to be} ~~is~~ deadly to all
 animals that breathe it by the mouth &
 nostrils together; but if the nostrils were
 kept shut, I was led to think it might
 be breathed with safety. I found for exam-
 -ple, when sparrows died in it in ten
 or twelve seconds, they would live in it
 for three or four minutes when the
 nostrils were shut by melted Suet."
 The opinions I am delivering ~~are~~ of ^{the}

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manner in which miasmata of air upon the
 body in the production of disease are of a prac-
 tical nature. They lead to the early use of
 emetics ^(if we admit that) ~~before these miasmata are conveyed~~
~~upon the~~ ^{and} before they have had
 time to bring on fever, and they suggest to
 us the advantage of ^{holding the breath for a short time, and} closing the nose. When
 constantly we are exposed to morbid exhalations.

~~I have then mentioned the diseases~~
~~which~~ the diseases which are produced by
 the ^{sensible} ~~insensible~~ qualities of the air, ~~and by foreign~~
~~qualities which float it, of a different~~ such as
 heat and cold ^{and storm &c.} ~~affecting individuals~~ attack in
 a solitary form, or at the worst, in scouting
 parties, but the diseases which are produced
 by the insensible qualities of the ^{air,} ~~weather~~
 come forward in all the pomp of mighty
 armies spreading distress, terror, and

~~The principal Epidemics I have said are
produced by 1st foreign or imitating matters
in the air. 2nd by bad provisions & 3rd by bad
water. - Sometimes they all three concur in
the production of an epidemic - by one
or two of them acting as predisposing causes.~~

Sometimes death through whole commu-
 -nities, cities and nations. In this confu-
 -rated form they are called Epidemics. ^{Disrupting} Terri-
 -ble and destructive as they often are, they ^{do} ~~can~~
 not exist, nor act by an immutable decree
 of Heaven. ^{They may be foreseen, --} They may be known; -- they
 may be prevented; -- they may be resisted, &
 they may be vanquished by the power of
 medicine. The ^{principles} ~~limits~~ of pathology ~~with~~ is
^{to deliver} ~~confronted~~ ~~at present~~ a history of their
 laws, ^{only,} and of the phenomena which precede
 and accompany them. The means of
 preventing and curing them will be men-
 -tioned our Therapeutics & the practice of
 Physic.

I exclude from Epidemics ^{all} ~~the~~ laws
 those forms which are induced by the sensibly ^{apparent}
~~of~~ ~~the~~ ~~air~~ ~~about~~ ~~the~~ ~~surface~~ ~~of~~ ~~the~~ ~~earth~~
 - cities of the air, ~~and~~ ~~all~~ ~~the~~ ~~rest~~

V are 1 produced by foreign matters in
the atmosphere - 2 by bad provisions &
3^{ly} by bad water. To the diseases from foreign
or irritating matters in the air belong

W This was evinced in many instances
During ^{our} ~~the~~ Revolutionary War, for while
two or three, and often more of our
soldiers died of the hospital fever ^{every day} in the hospitals
~~at~~ in the house of employment in Philad.^a
in the College at Princeton & in the British
house at Bethlehem in this state, the inha-
-bitants of all those places were perfectly
healthy. —

~~These~~ ^{general} diseases which sometimes affect whole
communities from unwholesome provisions,
and bad water, I exclude ^{from them.} likewise from ~~epi-~~
~~demics~~, the fevers from Idiosyncrasmia, or
human exhalations. They never infect the
atmosphere, and the disease produced by them
never spreads ~~but~~ beyond the limits of the
house, ~~or~~ or ship, or jail, or hospital
in which it ~~exists~~ is generated, or to which
it is carried. The matter excreted from the
body in this disease I have said never
extends beyond 10 feet from the persons
affected with it. I include in Epidemics ^V only
those groups of diseases ~~only~~ which are ~~con-~~
~~minated~~ through the medium of the Atmos-
~~phere~~. They are ^{1st} ~~the~~ fevers from ~~poison-~~
~~ous~~ miasmatic exhalations in which I include
the African or Asiatic plague, the American



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yellow fever - the bilious inflammatory - the
 mild remitting ~~the~~ [&]intermittent fever - the
~~febrile~~ the Chronic bilious fever - the febrile,
 Phrenitis, febrile mania, Opthalmia, the
 petechial fever - Dysentery - Colera morbus,
 Colic and Diarrhea. 2 The Cynanche maligna
 and Scarlatina. 3 The Influenza, & by the
 Small pox - Measles, and Hooping Cough.

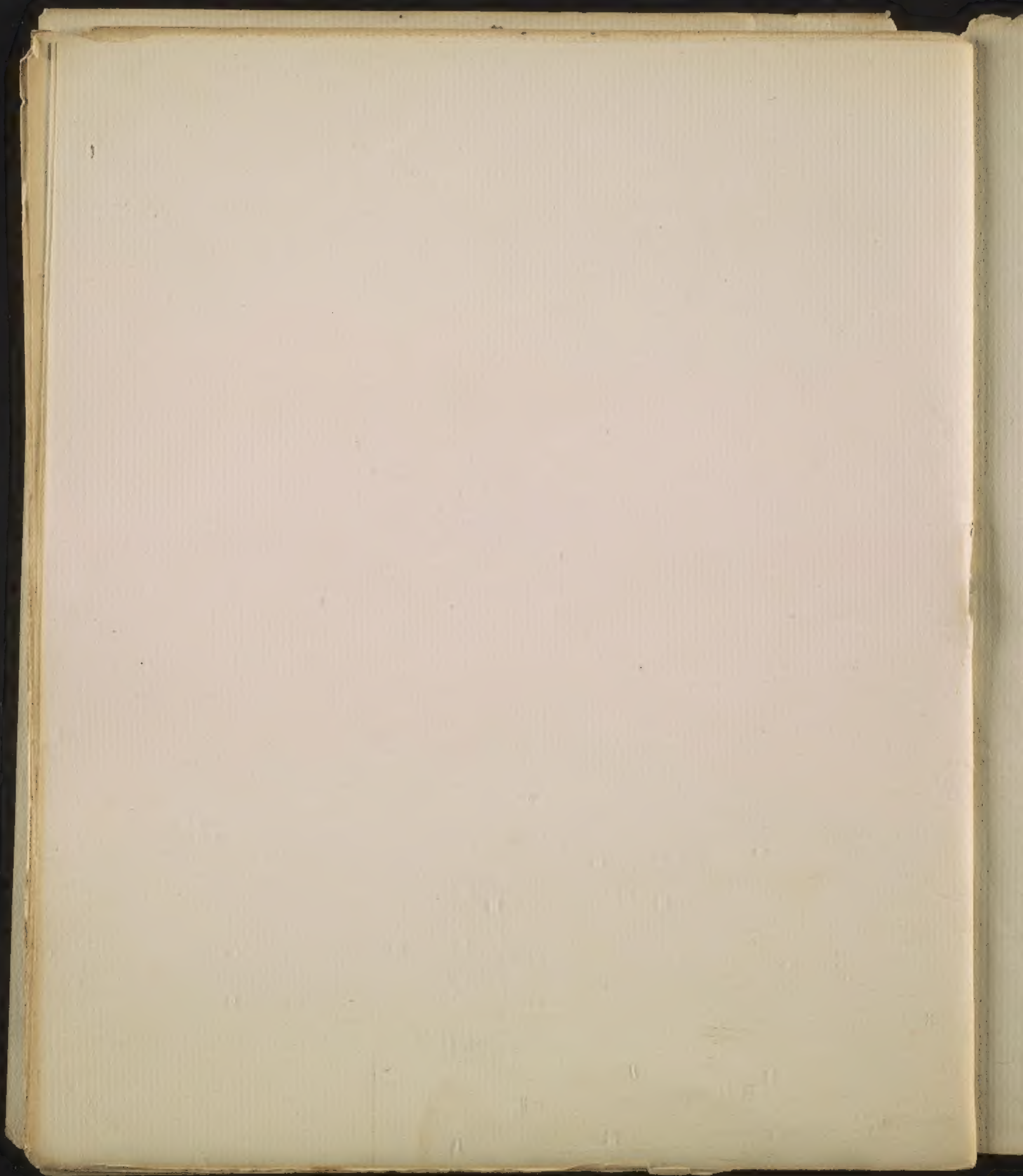
I shall now proceed to enumerate the
 laws of Epidemics. — These will apply
 chiefly to the Diseases which are generated by
 unwholesome matters in the air. The Epide-
 =emics from bad provisions & bad water will
 be noticed in the place assigned to them in
 our Syllabus.

The Subject before us is interesting one, &
 should command your closest Attention. It is one
 of the most scientific parts of medicine. You
 may be ~~practitioner of physic without~~ ^{without}









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